

using said first proxy and said first processing means, encoding said object oriented programming language based message into an operating system based message at run time;

transmitting said operating system based message to said second process in said second processing means at run time;

decoding, using a second [processing means] process, said operating system based message into a language based message;

transmitting, using said second processing means, said object oriented programming language based message to said second object in said second process;

executing said object oriented programming language based message by said second object in said second process.

2. (Amended) The method of claim 1 further including the steps of:

said second object in said second process [executing said object oriented programming language based message, using said second processing means,] and] generating an object oriented programming language based result;

encoding, using said second processing means, said object oriented programming language based result into an operating system based result at run time;

transmitting, using said second processing means], said operating system based result to said first process at run time;

decoding said operating system based result into an object oriented programming language based result at run time, using said first processing means;

transmitting, using said first processing means, said object oriented programming language based result to said first object.

4. (Amended) The method of claim [3] 1 wherein said second object executes said method on said argument when executing said message.

5. (Amended) The method of claim [2] 1 wherein the step of executing said object oriented programming language based message further includes the steps of:

said second object determining, using said second processing means, whether additional information is needed to execute said object oriented programming language based message;

said second object generating, using said second processing means, an object oriented programming language based query if it is determined that additional information is needed;

E² encoding, using said second processing means, said object oriented programming language based query into an operating system based query at run time if it is determined that additional information is needed;

transmitting said operating system based query to said first process at run time, using said second processing means if it is determined that additional information is needed;

decoding, using said first processing means, said operating system based query into an object oriented programming language based query at run time if it is determined that additional information is needed;

transmitting, using said first processing means, said object oriented programming language based query to said first object if it is determined that additional information is needed.

E³ 7. (Amended) The method of claim 6 wherein said first [process] processing means and said second [process] processing means are [located on first and second computers respectively] the same processing means.

[Please add the following new claims:

E⁴ 19. A method for sending, in a C environment with minimal run time support, an object oriented programming language based message having dynamic binding from a first object in a first process to a second object in a second process, said method comprising the steps of:

transmitting, using a first processing means implementing said C environment, said object oriented programming language based message to a first proxy in said first process;

using said first proxy and said first processing means, encoding said object oriented programming language based message into an operating system based message at run time;

transmitting said operating system based message to said second process at run time;

decoding, using a second processing means implementing said C environment, said operating system based message into a language based message;

transmitting, using said second processing means, said object oriented programming language based message to said second object.¶

¶20. The method of claim 19 further including the steps of:

said second object executing said object oriented programming language based message, using said second processing means, and generating an object oriented programming language based result;

encoding, using said second processing means, said object oriented programming language based result into an operating system based result at run time;

transmitting, using said second processing means, said operating system based result to said first process at run time;

decoding said operating system based result into an object oriented programming language based result at run time, using said first processing means;

transmitting, using said first processing means, said object oriented programming language based result to said first object.¶

¶21. The method of claim 20 wherein the step of executing said object oriented programming language based message further includes the steps of:

said second object determining, using said second processing means, whether additional information is needed to execute said object oriented programming language based message;

said second object generating, using said second processing means, an object oriented programming language based query if it is determined that additional information is needed;

encoding, using said second processing means, said object oriented programming language based query into an operating system based query at run time if it is determined that additional information is needed;

transmitting said operating system based query to said first process at run time, using said second processing means if it is determined that additional information is needed;

decoding, using said first processing means, said operating system based query into an object oriented programming language based query at run time if it is determined that additional information is needed;

transmitting, using said first processing means, said object oriented programming language based query to said first object if it is determined that additional information is needed.

22. The method of claim 21 further including the steps of:

said first object generating, using said first processing means, an object oriented programming language based reply to said object oriented programming language based query;

encoding said object oriented programming language based reply into an operating system based reply at run time, using said first processing means;

transmitting, using said first processing means, said operating system based reply to said second process at run time;

decoding, using said second processing means, said operating system based reply into an object oriented programming language based reply at run time;

transmitting, using said processing means, said object oriented programming language based reply to said second object.

F⁴
#23. The method of claim 21 wherein said operating system based message comprises a Mach message.

#24. The method of claim 21 wherein said first processing means and said second processing means are the same processing means.
